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CONSOLIDATED TRANSLATION SURVEY

Number 131

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CENTRAL INTELLIGENCE AGENCY
Washington, D.C. 20505

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CONSOLIDATED TRANSLATION SURVEY

FOR NOVEMBER 1968

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CONSOLIDATED TRANSLATION SURVEY

PREFACE

This survey is prepared monthly from lists received through the cooperation of US government agencies and includes universities, research institutions, and commercial translation organizations. It is a compilation of projects completed or started during the preceding month.

Translations are listed by area and subject category. Scientific projects, are grouped as a section regardless of geographic area. Title in English, author, foreign language title of source of material, date of publication, and publication identification of the completed project are given when available. Tables of contents of journals translated cover-to-cover are reproduced from the current publications.

Projects in process, i.e., not completed as of the date of this survey, are noted with an asterisk (*), and when available, a project-control or "in-process" number is noted in parentheses following the title. Certain details may be unavailable in such projects. New projects in process are not listed again until they are completed.

An index to authors of items in this issue is provided at the end of the survey.

Scientific and Technical translations are grouped according to the COSATI subject category list except for military science and ordnance items which are listed under "military" in the appropriate geographic areas.

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(see CFSTI)

ACSI - (see DIA)

AEC - Atomic Energy Commission (see CFSTI)

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Air Force Cambridge Research Laboratories
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Office of Aerospace Research
United States Air Force
Laurence G. Hanscom Field
Bedford, Massachusetts
ATTN: CRMXLR

AGU

American Geophysical Union
1515 Massachusetts Avenue, NW
Washington, D. C. 20005

AIP

American Institute of Physics
335 East 45th Street
New York, New York 10017

Amer Math Soc

American Mathematical Society
P.O. Box 6248
Providence, Rhode Island 02904

ANL - Argonne National Laboratory, Illinois
(see AEC)

APL/JHU

The Johns Hopkins University
Applied Physics Laboratory
8621 Georgia Avenue
Silver Springs, Maryland 20910

BISI

British Iron and Steel Industry Translations Service
The Iron and Steel Institute
4 Grosvenor Gardens
London, S.W. 1, England

CB

Consultants Bureau Enterprises, Incorporated
227 West 17th Street
New York, New York 10011

CFSTI

Clearinghouse for Federal Scientific and
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Port Royal and Braddock Roads
Springfield, Virginia 22151

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Columbia Technical Translations
5 Vermont Avenue
White Plains, New York 10600

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Rochdale House, Theobolds Roads
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DIA

Defense Intelligence Agency
Washington, D. C. 20301

FP

The Faraday Press, Incorporated
84 Fifth Avenue
New York, New York 10011

FSTC

Defense Documentation Center
Cameron Station
Alexandria, Virginia 22314

FTD

Foreign Technology Division
Defense Documentation Division
Cameron Station
Alexandria, Virginia 22314

HB

Henry Brutcher Technical Translations
P.O. Box 157
Altadena, California 91001

HEW - (see NIH)

IEEE

Institute of Electrical and Electronics Engineers
275 Madison Avenue
New York, New York 10016

JPRS

U. S. Department of Commerce
Clearinghouse for Federal Scientific and
Technical Information
Joint Publications Research Service
Building Tempo E
East Adams Drive, 4th & 6th Streets, SW
Washington, D. C. 20443

NASA

National Aeronautics and Space Administration
1512 H Street, NW
Washington, D. C. 20546

NavShips

Department of Navy
Naval Ship Systems Command
Washington, D. C. 20360

NIC

Naval Intelligence Command
Naval Intelligence Command Headquarters
NIC-15
Washington, D. C. 20350

NIH

Circulation Unit
Readers Services Section
Library Branch, DRS
National Institutes of Health
Building 10, Room SN118
Bethesda, Maryland 20014

NMS

Naval Medical School
National Naval Medical Center
Bethesda, Maryland 20014

NOO

U.S. Naval Oceanographic Office
Washington, D. C. 20390

NRL

U. S. Naval Research Laboratory
Washington, D. C. 20390

NSRDC

Naval Ship Research and Development Center
Washington, D. C. 20007

NSTIC

Naval Science and Technical Intelligence Center
Ministry of Defense
Room 102, Station Square House
St. Mary Cray, Orpington, Kent
England

ONI - (see NIC)

ORNL - Oak Ridge National Laboratory (see AEC)

OSA

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PG

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Smithsonian Inst Astrophysical Observatory

**Smithsonian Institution
Astrophysical Observatory
Cambridge, Massachusetts 02138**

UCRL

**University of California
Lawrence Radiation Laboratory
Livermore, California
(see AEC)**

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Economic (Contd)

USSR

Economic

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RUSSIAN, bk, Konteyernyye i Paketnyye
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1967, pp 3-183.
ACSI J-4123
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pp 156-159.
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Essay on the Development of Automatic Machines
in the USSR - Pre-October Period, by A. V. Khremo:
RUSSIAN, bk, Ocherk Istorii Razvitiya Avtomatiki
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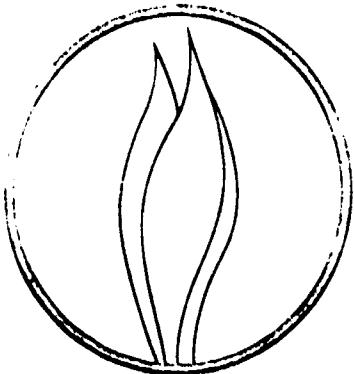
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The following corrections have been suggested by the authors.

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On page 820 the Corollary should be:

Corollary. $O(\Pi)$ is a flat $K(\Pi)$ -module.

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CORRECTIONS

The following corrections have been suggested by the authors.

G. Ja. Lozanovskii, Calderon's Banach structures, Vol. 8 (1966), 224-227 (Russian pages Tom 172,
1018-1020).

In Theorem 1, the spaces $(X_1^{1-s} X_2^s)'$ and $(X_1')^{1-s} (X_2')^s$ not only coincide in their elements and
topology but also, in the natural way, they are isometric.

In Theorem 4 C can be any number greater than unity. But if $X = X'$, C may be taken equal
to unity.

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CORRECTIONS

The following corrections are translated from page VII of Tom 174.

V. R. Portnov, *A theorem on the density of finite functions in weight classes*, Vol. 6 (1965), no. 1, 149-152 (Russian pages Tom 160, 545-548).

On p. 150, l. 9, $\gamma^{(l,k)} - rp + 1$ should be $\gamma^{(l,k)} - rp + q_k$.

On p. 150 between the definition and Theorem 1 the following paragraph should be inserted:

Below we shall consider only those $L_{p,b}^{(\tilde{a})}(\Omega)$ on which $u(x) \in L_{p,b}^{(\tilde{a})}(\Omega)$ implies that $u(x)\psi(\tilde{x}_1) \in L_{p,b}^{(\tilde{a})}(\Omega)$ for an arbitrary function $\psi(\tilde{x}_1)$ with bounded derivatives up to order $\max_l m^{(1,l)}$ and such that $\psi(\tilde{x}_1) = 1$ outside of some sphere.

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CORRECTIONS AND ADDITIONS

The following corrections are translated from the original Tom 175:

G. S. Litvin'uk, *Noether theorems for a class of singular integral equations with shift and conjugation*, Vol. 6 (1965), no. 3, 625-629 (Russian pages Tom 162, 26-29).

Propositions 2, 3 and 4 and Theorem 2 relate to the case of even n . Investigation of the case of odd n is trivial, and here $I > 2 \operatorname{Ind} \Delta_n(t)$. In the article this case is illustrated by example (6).

D. L. Berman, *On the theory of interpolation*, Vol. 6 (1965), no. 4, 945-948 (Russian pages Tom 163, 551-554).

Theorem 1 should be expressed in the following way:

The Lagrange interpolation process for a function of Dini-Lipschitz class with nodes (2) converges uniformly in $[-1, 1]$.

The inequality (4) on p. 946 is not valid.

In Theorem 3 $\overline{\lim}_{n \rightarrow \infty} H_n(f, 0) = \infty$ should be replaced by the inequality

$$\overline{\lim}_{n \rightarrow \infty} H_n(f, 0) > \frac{1}{2}.$$

Equation (6) on p. 947 should have the form

$$\sum_{j=1}^m \frac{1}{\sin^4 \varphi_j / 2} = \frac{10}{3} n^4 + \frac{8}{3} n^2.$$

In the article

A. D. Brjuno, *Divergence of transformations of differential equations to normal form*, Vol. 8 (1967), no. 3, 692-695 (Russian pages Tom 174, 1003-1006),

the author has requested that the following addition be inserted on p. 695 just before the bibliography:

Theorem 3. If in the normal form (8) h is analytic and is not a function of two variables u and v only, then there exists an analytic system (7) for which (8) is the normal form, and every transformation of system (7) to an arbitrary normal form is divergent.

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CORRECTIONS AND ADDITIONS

The following corrections are translated from the original Tom 176:

I. I. Ogieveckii, *Summation of unbounded sequences by linear regular methods*, Vol. 7 (1966), no. 2, 518-520 (Russian pages Tom 167, 989-991). In the second line of Theorem 4, instead of "a regular matrix", read "a normal regular matrix".

The following addition and corrections have been made by the author:

B. D. Romm, *Fully reducible representations of a semisimple Lie algebra*, Vol. 8 (1967), no. 4, 861-864 (Russian pages Tom 175, 300-302).

In the article we have considered a linear representation $a \rightarrow X(a)$ of the semisimple algebra \mathfrak{G} in a space \mathfrak{U} of arbitrary dimension. Let \mathfrak{N} be a subspace invariant with respect to this representation. Let \mathfrak{X} be the totality of all linear operators in \mathfrak{U} which send \mathfrak{U} into \mathfrak{N} and \mathfrak{N} into \mathfrak{U} . Let us denote by \tilde{G} the Casimir operator for the representation $a \rightarrow \tilde{X}(a)$.

In the last sentence of Theorem 1, G should be replaced by \tilde{G} and \mathfrak{U} by \mathfrak{X} , and instead of "then this representation is fully reducible" we should have "then for the representation $a \rightarrow X(a)$ there exists in \mathfrak{U} a subspace \mathfrak{B} , the complement of \mathfrak{N} , invariant under all operators $X(a)$ ".

In the last sentence of Theorem 2, $X(h)$ and $X^{-1}(h)$ should be replaced by $\tilde{X}(h)$ and $\tilde{X}^{-1}(h)$, and \mathfrak{U} by \mathfrak{X} ; Instead of "the representation is fully reducible" we should have "for the representation $a \rightarrow X(a)$ there exists in \mathfrak{U} an invariant subspace, the complement to \mathfrak{N} ."

In the proofs of Theorems 1 and 2, $X(a)$ should be replaced everywhere by $\tilde{X}(a)$.

Theorems 3, 4 and 5 and the Corollary to Theorem 4 are in doubt since the proofs are not correct.

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CORRECTIONS AND ADDITIONS

The following corrections are translated from the original Tom 177:

Ju. K. Dem'janovič, *Estimates of the rate of convergence of certain projection methods for the solution of elliptic equations*, Vol. 8 (1967), no. 3, 658-661 (Russian pages Tom 174, 518-521).

On p. 660, line 12 from below, $W_2^k(Q)$ should be $W^k(Q)$.

M. I. Morozov, *On the uniform approximation of functions by positive linear operators*, Vol. 8 (1967), 186-187 (Russian pages Tom 172, 787-788).

p. 187, line 15 $k = 2, 3, \dots$ should be $k = 2, 3, \dots$

line 18 $2\left(1 - \frac{\lambda_1}{4} - \sum_{k=2}^{\infty} \frac{\lambda_k}{k^2 - 1}\right)$ should be $2\left(1 - \frac{\lambda_1}{4} - \sum_{k=2}^{\infty} \frac{\lambda_k}{k^2 - 1}\right) \sin \theta$.

line 22 after = 0, insert $k = n, n + 1, \dots$,

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With the exception of certain trigonometric and hyperbolic functions, Soviet mathematical symbols are the same as those encountered in the American literature. For the reader's convenience a list of such exceptions and their American equivalents is given below.

<u>Soviet Usage</u>	<u>American equivalent</u>
Arch	\cosh^{-1}
Aroth	\coth^{-1} (tanh^{-1})
Arsh	\sinh^{-1}
Arth	\tanh^{-1}
arccos	\cos^{-1} ($\operatorname{arc cos}$)
arctg	\cot^{-1} ($\operatorname{arc cot}$)
arcsin	\sin^{-1} ($\operatorname{arc sin}$)
arctg	\tan^{-1} ($\operatorname{arc tan}$)
ch	\cosh
cosec	\csc
ctg	\cot (ctn)
cth	\coth (tanh)
rot	curl
sch	sech
sh	\sinh
tg	\tan
th	\tanh

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EDITOR'S NOTE

With the exception of certain trigonometric and hyperbolic functions, Soviet mathematical symbols are the same as those encountered in the American literature. For the reader's convenience a list of such exceptions and their American equivalents is given below.

<u>Soviet Usage</u>	<u>American equivalent</u>
Arch	\cosh^{-1}
Arcth	\coth^{-1} (ctnh^{-1})
Arsh	\sinh^{-1}
Arth	\tanh^{-1}
arccos	\cos^{-1} ($\operatorname{arc cos}$)
arcctg	\cot^{-1} ($\operatorname{arc cot}$)
arcsin	\sin^{-1} ($\operatorname{arc sin}$)
arctg	\tan^{-1} ($\operatorname{arc tan}$)
ch	\cosh
cosec	\csc
ctg	\cot (ctn)
cth	\coth (ctnh)
rot	curl
sch	sech
sh	\sinh
tg	\tan
th	\tanh

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Following is a translation of selected articles from the Russian-language periodical Vestnik svyazi (Herald of Communications), Vol XXVIII, No 8, published by the Ministry of Communications USSR and the Central Committee of the Communications Workers Trade Union, August, 1968, Moscow. Note: Original source pages are given in the left-hand margin. Summaries within brackets are those of the translator.

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* * *

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Central Intelligence Agency



Washington, D.C. 20505

7 September 2004

Ms. Roberta Schoen
Deputy Director for Operations
Defense Technical Information Center
7725 John J. Kingman Road
Suite 0944
Ft. Belvoir, VA 22060

Dear Ms. Schoen:

In February of this year, DTIC provided the CIA Declassification Center with a referral list of CIA documents held in the DTIC library. This referral was a follow on to the list of National Intelligence Surveys provided earlier in the year.

We have completed a declassification review of the "Non-NIS" referral list and include the results of that review as Enclosure 1. Of the 220 documents identified in our declassification database, only three are classified. These three are in the Release in Part category and may be released to the public once specified portions of the documents are removed. Sanitization instructions for these documents are included with Enclosure 1.

In addition to the documents addressed in Enclosure 1, 14 other documents were unable to be identified. DTIC then provided the CDC with hard copies of these documents in April 2004 for declassification review. The results of this review are provided as Enclosure 2.

We at CIA greatly appreciate your cooperation in this matter. Should you have any questions concerning this letter and for coordination of any further developments, please contact Donald Black of this office at (703) 613-1415.

Sincerely,

A handwritten signature in black ink that appears to read "Nancy J. Alcivar".

Sergio N. Alcivar
Chief, CIA Declassification Center,
Declassification Review and Referral
Branch

Enclosures:

1. Declassification Review of CIA Documents at DTIC (with sanitization instructions for 3 documents)
2. Declassification Status of CIA Documents (hard copy) Referred by DTIC (with review processing sheets for each document)

UNCLASSIFIED



Processing of OGA-Held CIA Documents

The following CIA documents located at DTIC were reviewed
by CIA and declassification guidance has been provided.

OGA Doc ID	Job Num	Box	Fltr	Doc	Doc ID	Document Title	Pub Date	Pages	Decision	Proc Date
AD0831939	78-03109A	59	1	2	123	Consolidated Translation Survey Through 31 March 1968	3/31/1968	252	Approved For Release	3/25/2004
AD0833917	78-03109A	59	1	3	124	Consolidated Translation Survey Through 30 April 1968	4/30/1968	223	Approved For Release	3/25/2004
AD0835906	78-03109A	59	1	4	125	Consolidated Translation Survey Through 31 May 1968	5/31/1968	267	Approved For Release	3/25/2004
AD0838252	78-03109A	59	1	5	126	Consolidated Translation Survey Through 30 June 1968	6/30/1968	341	Approved For Release	3/25/2004
AD0839299	78-03109A	59	1	6	127	Consolidated Translation Survey Through 31 July 1968	7/31/1968	354	Approved For Release	3/25/2004
AD0841414	78-03109A	59	1	7	128	Consolidated Translation Survey Through 31 August 1968	8/31/1968	255	Approved For Release	3/25/2004
AD0844244	78-03109A	59	1	8	129	Consolidated Translation Survey Through 30 September 1968	9/30/1968	259	Approved For Release	3/25/2004
AD0845247	78-03109A	60	1	130		Consolidated Translation Survey Through 31 October 1968	10/31/1968	252	Approved For Release	3/25/2004
AD0847806	78-03109A	60	1	2	131	Consolidated Translation Survey Through 30 November 1968	11/30/1968	284	Approved For Release	3/25/2004
AD0848152	78-03109A	60	1	3	132	Consolidated Translation Survey Through 31 December 1968	12/31/1968	176	Approved For Release	3/25/2004
AD0848841	78-03109A	60	1	4	133	Consolidated Translation Survey Through 31 January 1969	1/31/1969	188	Approved For Release	3/25/2004
AD0850186	78-03109A	60	1	5	134	Consolidated Translation Survey Through 28 February 1969	2/28/1969	167	Approved For Release	3/25/2004
AD0851748	78-03109A	60	1	6	135	Consolidated Translation Survey Through 31 March 1969	3/1/1969	232	Approved For Release	4/5/2004
AD0853348	78-03109A	60	1	7	136	Consolidated Translation Survey Through 30 April 1969	4/30/1969	262	Approved For Release	3/25/2004
AD0856606	78-03109A	60	1	8	137	Consolidated Translation Survey Through 31 May 1969	5/31/1969	306	Approved For Release	3/25/2004
AD0857706	78-03109A	63	1	1	138	Consolidated Translation Survey Through 30 June 1969	8/22/1969	413	Approved For Release	3/25/2004
AD0858054	78-03109A	63	1	2	139	Consolidated Translation Survey Through 31 July 1969	9/3/1969	185	Approved For Release	3/25/2004
AD0860022	78-03109A	63	1	3	140	Consolidated Translation Survey Through 31 August 1969	10/3/1969	315	Approved For Release	3/25/2004
AD0860905	78-03109A	63	1	4	141	Consolidated Translation Survey Through 30 September 1969	9/30/1969	285	Approved For Release	3/25/2004
AD0861886	78-03109A	63	1	5	142	Consolidated Translation Survey Through 31 October 1969	10/31/1969	269	Approved For Release	3/25/2004
AD0863371	78-03109A	63	1	6	143	Consolidated Translation Survey Through 30 November 1969	11/30/1969	224	Approved For Release	3/25/2004
AD0864516	78-03109A	63	1	7	144	Consolidated Translation Survey Through 31 December 1969	12/31/1969	177	Approved For Release	3/25/2004